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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,280	08/30/2001	Shawn R. Gettemy	PALM-3675 1896		
75	90 03/26/2004	EXAMINER			
WAGNER, MURABITO & HAO LLP			WU, XIAO MIN		
Third Floor Two North Market Street			ART UNIT	PAPER NUMBER	
San Jose, CA 95113			2674		
		DATE MAILED: 03/26/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

_		Applicat	ion No.	Applicant(s)			
•			280	GETTEMY ET AL.			
Office Action Summary		Examine	or .	Art Unit			
		XIAO M.	WU	2674			
Ti	he MAILING DATE of this commur eply	nication appears on th	ne cover sheet with the c	orrespondence address			
A SHOR' THE MAI - Extension after SIX (- If the perio - If NO perio - Failure to Any reply	TENED STATUTORY PERIOD F LING DATE OF THIS COMMUN s of time may be available under the provisions 6) MONTHS from the mailing date of this commod for reply specified above, the maximum storeply within the set or extended period for reply received by the Office later than three months tent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no e nunication. s0) days, a reply within the sta latutory period will apply and v v will, by statute, cause the ap	vent, however, may a reply be tim atutory minimum of thirty (30) days will expire SIX (6) MONTHS from plication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)□ Re	Responsive to communication(s) filed on						
2a)⊟ Thi	This action is FINAL . 2b) This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	of Claims						
4a) 5)□ Cla 6)⊠ Cla 7)⊠ Cla	 Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-4,7,8,10,11,13-17,19,21-24 and 26-28 is/are rejected. Claim(s) 5,6,9,12,18,20 and 25 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 						
Application	Papers						
9) <u></u> The	specification is objected to by th	e Examiner.					
10) <u></u> The	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
App	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority unde	er 35 U.S.C. § 119						
12) Ack a) Ack 1. 2. 3.	nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Certified copies of the priority	documents have be documents have be of the priority docum onal Bureau (PCT Ru	en received. en received in Application ents have been receive ale 17.2(a)).	on No ed in this National Stage			
Attachment(s)							
1) Notice of I	References Cited (PTO-892) Draftsperson's Patent Drawing Review (F	PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) 🛛 Informatio	n Disclosure Statement(s) (PTO-1449 or s)/Mail Date <u>2</u> .			atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 1, 3-4, 7-8, 10-11, 13-17, 19, 21-22, 24, 26-28 are rejected under 35
 U.S.C. 102(e) as being anticipated by Fishkin et al. (US Patent No. 6,243,074).

As to claims 1, 24, Fishkin discloses a portable computer (20, Fig.1 or 122, Fig. 3) comprising: a bus (e.g. the dash lines connecting between elements 26, 24, 28, 32, 33 in Fig. 1); a processor (24) coupled to the bus; a housing (20) comprising an electronic muscle material (e.g. deformation sensor mesh 22), the electronic muscle material, when moved, causing the processor to behave in a prescribe manner (see Figs. 3 and 4); a display device (30) coupled to the bus and for providing a visual display; and wherein the processor (24) implements a user interface for controlling the display.

As to claims 3, 21, 27, Fishkin discloses that the movement of the electronic muscle causes the processor to sense handling by user for determination of left-handedness or right-handedness thereof (col. 3, lines 28-37).

As to claim 4, Fishkin discloses that in response to the determination of handed the electronic material generated a plurality of function buttons in proximity user's fingers (e.g. a plurality of sensors 26, 28 function as a plurality of buttons are surrounding to the display and

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can perform different functions such as moving object, scrolling the image etc. by touching the sensors or buttons).

As to claim 7, Fishkin discloses the electronic muscle material vibrate to apprise user of relevant message being display (col. 15, lines 20-26).

As to claims 8, 28, Fishkin discloses the electronic material can be resized and rescale (col. 9, lines 40-51).

As to claims 10, 17, Fishkin discloses that the electronic muscle including an internal speaker (col. 7, line 49).

As to claims 11, 19, Fishkin discloses sound detection by vibration which is equivalent to a microphone (see col. 15, lines 19-34)

As to claim 13, Fishkin discloses a portable electronic device comprising: a processor (24) coupled to a bus; a display module (30) for displaying information and coupled to the bus; a memory (26) for storing information and coupled to the bus; an electronic muscle material (22, 28) couple to the bus and for sue as an input device.

As to claim 14, Fishkin discloses the muscle material comprises a plurality of buttons (e.g. the sensor 22 and 28) for user input.

As to claim 15, Fishkin discloses the electronic muscle material generates information used by the processor for detecting the placement of user finger (e.g. depress, squeeze, fold pinch, etc.).

As to claims 16, 26, Fishkin discloses that the locations of the plurality of buttons (or sensors) are defined based on the displacement of the user fingers on the electronic muscle material. For example, the sensor or button can be placed on the edge of the display or on corner

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of the display, or on the back of the display for left hand fingers and right hand finger (see Figs. 3, Fig. 9, and Figs. 38, 39, respectively).

As to claim 22, Fishkin discloses that the electronic muscle generates information used by the processor for detecting the identity of a user (e.g. voice identification, see col. 15, lines 27-33 and Fig. 27).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 2 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fishkin et al. (US Patent No. 6,243,074) in view of Henty (US Patent No. 5,838,138).

As to claims 2 and 23, it is noted that Fishkin discloses the device including a rechargeable battery but fails to disclose the movement of the electronic muscle material cause charging of the battery. Henty is cited to teach a portable computer device which including a

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mechanical power converter for converting movement of the input device into electrical current

to cause charging of the battery (see Fig. 1a, 1b). It would have been obvious to one of ordinary

skill in the art to have included a mechanical power converter as taught by Henty into the

electronic muscle device of Fishkin, so that the deformation movement of the electronic muscle

can generate electrical current for charging the battery, so as to save power.

Allowable Subject Matter

6. Claims 5, 6, 9, 12, 18, 20 and 25 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The US Patents 6,160,540, 6,411,283 are cited to teach a handheld display device.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Xiao Wu whose telephone number is (703) 305-4721.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377

xw March 21, 2004

> XIAO WU PRIMARY EXAMINER ART UNIT 2674

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